



Key Features

1. Single AMD EPYC™ 7001/7002* Series Processor (*AMD EPYC 7002 series drop-in support requires board revision 2.x)
2. 2TB Registered ECC DDR4 2666MHz SDRAM in 16 DIMMs
4TB Registered ECC DDR4 3200MHz SDRAM in 16 DIMMs (Board revision 2.x required)
3. Expansion slots:
1 PCI-E 3.0 x32 Left Riser Slot
1 PCI-E 3.0 x16 Right Riser Slot
M.2 Interface: 2 PCI-E 3.0 x2
M.2 Form Factor: 2280, 22110
M.2 Key: M-key
4. 12 NVMe via SlimSAS,
4 NVMe or 16 SATA3 via SlimSAS,
2 M.2,
2 SATA3
5. 2x 1GbE LAN Ports via Broadcom BCM5720L,
1 Realtek RTL8211E PHY (dedicated IPMI)
6. ASPEED AST2500 BMC graphics
7. Up to 7 USB 3.0 ports
(4 rear + 2 front + 1 Type A)
8. 6 PWM 4-pin Fans with tachometer status monitoring

Links & Resources

- ▶ [Tested Memory List](#)
- ▶ [Tested HDD List](#)
- ▶ [Tested M.2 List](#)
- ▶ [Tested AOC List](#)
- ▶ [Motherboard Manual](#)
- ▶ [Update Your BIOS](#)
- ▶ [IPMI Firmware](#)
- ▶ [Download the Latest Drivers and Utilities](#)
- ▶ [Download Driver CD](#)
- ▶ [OS Compatibility](#)



Note: Image above may show a varied configuration of optional parts.
Please refer to parts list for standard parts included.

Specifications

Product SKUs

MBD-H11SSW-iN ■ H11SSW-iN

MBD-H11SSW-iN-B ■ H11SSW-iN (Bulk Pack)

Physical Stats

Form Factor ■ Proprietary

Dimensions ■ 13.4" x 12.29" (34cm x 31.2cm)

Processor/Chipset

CPU ■ Single AMD EPYC™ 7001/7002* series Processor (*Board revision 2.x required)
■ Socket SP3

Cores ■ Up to 32 Cores
■ Up to 64 Cores (Board revision 2.x required)

Chipset ■ System on Chip

System Memory

Memory Capacity ■ 16 DIMM slots
■ Supports up to 2TB Registered ECC DDR4 2666MHz SDRAM in 16 DIMMs
■ Supports up to 4TB Registered ECC DDR4 3200MHz SDRAM (Board revision 2.x required)
■ 8-channel memory bus

Memory Type ■ DDR4 2666 MHz Registered ECC, 288-pin gold-plated DIMMs
■ DDR4 3200 MHz Registered ECC, 288-pin gold-plated DIMMs (Board revision 2.x required)

DIMM Sizes ■ 8GB, 16GB, 32GB, 64GB, 128GB, 256GB* (*Board revision 2.x required)

Memory Voltage ■ 1.2V

Error Detection ■ Corrects single-bit errors
■ Detects double-bit errors (using ECC memory)

On-Board Devices

SATA ■ SATA3 (6 Gbps)

IPMI ■ Support for Intelligent Platform Management Interface v.2.0
■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
■ ASPEED AST2500 BMC

Network Controllers ■ 2x 1GbE LAN Ports via Broadcom BCM5720L
■ 1 Realtek RTL8211E PHY (dedicated IPMI)

VGA ■ ASPEED AST2500 BMC

Input / Output

SATA ■ 2 SATA3 (6 Gbps) ports

SATA/NVMe Hybrid ■ 16 SATA3 / 4 NVMe

NVMe ■ 12 NVMe

LAN ■ 2 RJ45 1GbE Ethernet LAN ports
■ 1 RJ45 Dedicated IPMI LAN port

USB ■ 7 USB 3.0 ports
(4 rear + 2 front + 1 Type A)

VGA ■ 1 VGA port

Others ■ 2 COM ports (rear)
■ 2 SATA DOM power connectors
■ 1 TPM 2.0 header
■ 1 TPM 1.2 header

Expansion Slots

PCI-Express ■ 1 PCI-E 3.0 x32 Left Riser Slot
■ 1 PCI-E 3.0 x16 Right Riser Slot

M.2 ■ Interface: 2 PCI-E 3.0 x2
■ Form factor: 2280, 22110
■ Key: M-key

Chassis (Optimized for H11SSW-iN)

2U ■ SC213AC8-R1K23WB

System BIOS

BIOS Type ■ AMI 128Mb SPI Flash EEPROM

BIOS Features ■ Plug and Play (PhP)
■ DMI 2.3
■ PCI 2.2
■ ACPI 5.1
■ USB Keyboard Support
■ SMBIOS 3.1.1

Management

Software ■ **Super Doctor 5**
■ Watch Dog
■ NMI
■ **SUM**
■ **IPMI 2.0**, KVM with dedicated LAN

Power Configurations ■ ACPI Power Management
■ Power-on mode control for AC power loss recovery

PC Health Monitoring

CPU ■ Monitors CPU Core Voltages, +1.8V, +3.3V, +5V, +5V standby, +3.3V standby
■ CPU switching voltage regulator
■ Supports system management utility
■ VBAT

FAN ■ Up to 6-fan status tachometer monitoring
■ Up to 6 4-pin fan headers
■ Dual Cooling Zone
■ Status monitor for speed control
■ Pulse Width Modulated (PWM) fan connectors

Temperature ■ Monitoring for CPU and chassis environment
■ CPU Thermal Trip Support
■ Thermal control for 6x Fan connectors
■ PC Temperature Sensing Logic

LED ■ CPU / System Overheat LED

Other Features ■ Chassis Intrusion Detection
■ Chassis Intrusion Header
■ UID

Operating Environment / Compliance

Environmental Specifications ■ Operating Temperature: 10°C to 35°C (50°F to 95°F)
■ Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)
■ Operating Relative Humidity: 8% to 90% (non-condensing)
■ Non-operating Relative Humidity: 5% to 95% (non-condensing)

Parts List

Bulk Pack List

	Part Number	Qty	Description
H11SSW-iN	MBD-H11SSW-iN-B	1	H11SSW-iN Motherboard
I/O Cable	CBL-SAST-0813	1	SLIMLINE SAS x8 (LA) to SATA x4,INT, 16/26CM,32AWG

Retail Pack List

	Part Number	Qty	Description
H11SSW-iN	MBD-H11SSW-iN-O	1	H11SSW-iN Motherboard
I/O Cable	CBL-SAST-0813	1	SLIMLINE SAS x8 (LA) to SATA x4,INT, 16/26CM,32AWG

Optional Parts List

	Part Number	Qty	Description
I/O Cable	CBL-SAST-0814	-	SLIMLINE SAS x8 (LA) to 2x Oculink x4,INT,13CM,34AWG
I/O Cable	CBL-SAST-0815	-	SLIMLINE SAS x8 to 2x Oculink x4,INT, 22CM,34AWG
I/O Cable	CBL-SAST-0816	-	SLIMLINE SAS x8 (LA) to 2x Oculink x4,INT, 28CM,34AWG
TPM security module	<u>AOM-TPM-9655V</u>	-	TPM 1.2 module w ith Infineon 9655, RoHS/REACH,PBF;
	<u>AOM-TPM-9655V-S</u>	-	TPM 1.2 module w ith Infineon 9655, RoHS/REACH,PBF; Provisioned for TXT
	<u>AOM-TPM-9665V</u>	-	TPM 2.0 module w ith Infineon 9665, RoHS/REACH,PBF;
	<u>AOM-TPM-9665V-S</u>	-	TPM 2.0 module w ith Infineon 9665, RoHS/REACH,PBF; Provisioned for TXT